Bronzehøj 8 Born: 23. June 1986 8800 Viborg, Denmark Citizenship: Danish

Phone: $+45\ 28\ 57\ 07\ 25$ two children (age 12 and 14)

Email: larsen@cs.au.dk

ORCID: https://orcid.org/0000-0001-8841-5929



Education

Ph.D. Computer Science, Aarhus University, August 2008 – May 2013.

Advisor: Lars Arge. Succesfully defended May 17th 2013.

B.Sc. Computer Science, Aarhus University, August 2005 – July 2008.

Professional Appointments

Full Professor at Aarhus University. Dep. of Computer Science.

Feb 2022 -

Head of Algorithms, Data Structures and Foundations of Machine Learning

Head of Research Group. Aarhus University. Dep. of Computer Science.

June 2021 -

Senior Scientific Expert (part time) at Kvantify.

May 2022 -

Full Professor (part time) at University of Copenhagen. Dep. of Computer Science.

Oct 2020 - Oct 2021

Associate Professor at Aarhus University. Dep. of Computer Science.

May 2018 – Jan 2022

Member of the Young Academy under the Royal Danish Academy of Sciences and Letters.

June 2017 – June 2022

Assistant Professor at Aarhus University. Dep. of Computer Science.

May 2014 - April 2018

Scientific Software Developer at CLC bio.

March 2013 – April 2014.

Awards

COLT'23 Best Paper Award (36th Conference on Learning Theory).

Presburger Award 2019.

CRYPTO'18 Best Paper Award (38th International Cryptology Conference).

Teacher of the Year Award 2018.

Selected by the students at Computer Science, Aarhus University.

Hartmann Foundation's Diploma Prize 2017.

Aarhus University Ph.D. Prize 2014.

STOC'12 Best Paper Award (44th ACM Symposium on Theory of Computing).

STOC'12 Best Student Paper Award (44th ACM Symposium on Theory of Computing). The Danny Lewins Award.

FOCS'11 Best Student Paper Award (52nd IEEE Symposium on Foundations of Computer Science). The Machtey Award.

Danish Minister of Science's Elite Research Travel Scholarship 2011.

Videnskabsministerens EliteForsk Rejsestipendie 2011.

Google European Doctoral Fellowship 2010.

Google Fellowship in Search and Information Retrieval.

Grants

Funding amount is listed in EUR, rounded to nearest multiple of 10k EUR. Exchange rate 1 EUR to DKK of 7.46.

- PI, ERC (European Research Council) Consolidator Grant. 2,000,000 EUR. 2024 2029.
- Co-PI, Villum Synergy Grant, with Prof. Ove Christiansen (Chemistry AU). 400,000 EUR. 2021 2024.
- PI, DFF (Det Frie Forskningsråd) Sapere Aude Research Leader Grant. 820,000 EUR. 2019 2025.
- PI, Villum Young Investigator Grant. 670,000 EUR. 2016 2021.
- PI, AUFF (Aarhus University Research Foundation) Starting Grant. 220,000 EUR. 2016 2021.

International Relations

I spent the Fall semester of 2018 as an invited long term visitor at the Simons Institute for Theory of Computing at UC Berkeley. I spent the Fall semester of 2011 as a visiting Ph.D. student at Princeton University. I have 84 distinct co-authors from 30 institutions around the world.

Post Docs

Arthur da Cunha. PhD from Inria. 2023 –, Zeynep Gündogar. PhD from Istanbul University. 2021 –, Martin Ritzert. PhD from Aachen University. 2021 – 2022, Ora Nova Fandina. PhD from the Hebrew University. 2020 –, Mark Simkin. PhD from Aarhus University. 2020 – 2021, Lior Kamma. PhD from the Weizmann Institute. 2017 – 2020.

Ph.D. Students

Mikael Møller Høgsgaard. 2020–, Alexander Mathiasen. 2016–2021, Casper Freksen. 2016–2020.

Master Thesis Students

Lena Laustsen 2020, Teis Nørgaard Petersen 2019, Mads Ruge Svejstrup 2019, Jonas Tranberg Sørensen 2019, Jacob Saunte 2018, Marcus Haaghs 2018, Mathias Kraft Mathiasen 2018, Jonas Hovmand, Peter Gabrielsen, Christoffer Hansen, Thor Bagge, Kent Grigo, Troels Thorsen, Jakob Landbo, Casper Green, Mads Ravn.

Bachelor Project Students

Fredrik Sejr Jørgensen (IT-Product Dev.) 2023, Mikkel Vestergaard Larsen (Data Science) 2023, Amanda Le 2023, Tjalfe Sebastian Monberg 2023, Ruben Eik Mortensen 2023, Lukas Petersen

(IT-Product Dev.) 2023, Laura Marie Lynggaard Nilsson (Data Science) 2022, Malthe Pedersen (Data Science) 2022, Tobias Jensen (Data Science) 2022, Morten Flensborg Jensen 2020, Sebastian Kolby 2020, Michael Peter Lautrup 2020, Jeppe Kuhlmann Andersen 2020, Frederik Brasch 2020, Morten Aardrup Eskildsen 2019, Lena Laustsen 2019, Emil Kjær Eriksen 2019, Daniel Schelander Korsgaard 2019, Daniel Martin Rasmussen 2019, Jon Wissing 2019, Alexander Mathiasen 2016.

Editorships

Editorial Board, SIAM Journal on Computing (SICOMP), 2024 - 2026.

Committees

Our conferences have program committees typically consisting of 25-50 researchers whose task it is to decide which papers to accept for publication. It is the program committee chair that appoints the rest of the program committee. I've served on the following international program committees:

ICALP'24, STOC'24, ESA'23, ICALP'22, STOC'22, SODA'22, SOSA'21, ESA'20, SWAT'20, STACS'20, PODS'20, FOCS'18, ICALP'18, SODA'18, MFCS'17, WADS'17, MASSIVE'16, SWAT'16, STOC'16, SODA'16, MASSIVE'15, ESA'15, SoCG'15.

I have also organized the following international workshops/summer schools:

Lars Arge Memorial Symposium 2021: Symposium in honour of Lars Arge at Aarhus University.

Workshop on Cryptography and Theoretical Computer Science 2020: Virtual Event at TCC'20.

Simon's Semester at UC Berkeley 2018: Workshop on Interactive Complexity.

Nexus of Information and Computation Theories 2016: Workshop on Fundamental Inequalities.

MADALGO Summer School 2016: Summer School on Streaming Algorithms.

Invited Talks Since 2022

Yale Foundations of Data Science Special Seminar.

New Haven, USA, December 6, 2023.

MIT Theory Colloquium.

Boston, USA, December 5, 2023.

TCS+ Seminar (Online).

Online Talk, October 29, 2023.

DeLTA Seminar Copenhagen University.

Copenhagen, Denmark, October 26, 2023.

Simons Workshop on Sketching and Algorithm Design.

Berkeley, USA, October 9, 2023.

Nordic AI Meetup.

Copenhagen, Denmark, October 4, 2023.

Viborg Folkeuniversitet.

Viborg, Denmark, September 25, 2023.

Akademiet for Talentfulde Unge. Sommercamp Foredrag.

Herning, Denmark, June 28, 2023.

ALGA Workshop Speaker.

Scicli, Italy, June 7, 2023.

ETH Zürich Theory Seminar (Online).

Zürich, Switzerland, May 11, 2023.

UC Berkeley Special Theory Seminar.

Berkeley, USA, April 27, 2023.

NESTOR Foredrag.

Aarhus, Denmark, April 19, 2023.

National University of Singapore Computer Science Research Week Lecturer.

Singapore, Singapore, January 4 – 6, 2023.

Princeton Theory Lunch Seminar.

Princeton, USA, December 9, 2022.

Princeton Institute for Advanced Study Seminar.

Princeton, USA, December 7, 2022.

Offentlige Foredrag i Naturvidenskab.

Aarhus, Denmark, November 22, 2022.

Weizmann Theory Seminar.

Rohovot, Israel, November 10, 2022.

Technion Theory Seminar.

Haifa, Israel, November 9, 2023.

Hebrew University Theory Seminar.

Jerusalem, Israel, November 7, 2022.

DIMACS Workshop on Lower Bounds and Frontiers in Data Structures.

New Brunswick, USA, August 8-11, 2022.

Banff Workshop on Communication Complexity and Applications, III.

Banff, Canada, July 24–29, 2022.

UC Berkeley Theory Lunch Seminar.

Berkeley, USA, May 12, 2022.

Boston University Theory Seminar (Online).

Boston, USA, May 9, 2022.

Purdue University Theory Seminar (Online).

West Lafayette, USA, March 30, 2022.

Publication List Kasper Green Larsen

I've published 75 papers. The topmost broad theory conferences are STOC and FOCS, followed by SODA and ICALP. The top specialised computational geometry conference is SoCG, the top cryptology conferences are CRYPTO and EUROCRYPT and the top broad machine learning conferences are NeurIPS and ICML. COLT is the top machine learning theory conference. Special issue invitations and spotlight presentations are usually given for the top 10-15% accepted papers.

According to Google Scholar, my h-index is 28 and my total citations is 2267 (on November 24th, 2023).

Rule: In theoretical computer science, we always list authors alphabetically by last name. Thus being first or last author is determined solely based on the alphabetic ordering of last names amongst my coauthors and I. Papers deviating from this rule are marked with * at the end of their titles.

ORCID: https://orcid.org/0000-0001-8841-5929

Peer-reviewed Conference and Journal Papers

75. The NFA Acceptance Hypothesis: Non-Combinatorial and Dynamic Lower Bounds

Karl Bringmann, Allan Grønlund, Marvin Künnemann, Kasper Green Larsen ITCS'24: 15th Innovations in Theoretical Computer Science.

74. Super-Logarithmic Lower Bounds for Dynamic Graph Problems

Kasper Green Larsen, Huacheng Yu

FOCS'23: 64th IEEE Symposium on Foundations of Computer Science.

Invited to special issue of SIAM Journal on Computing (SICOMP).

73. Bagging is an Optimal PAC Learner

Kasper Green Larsen

COLT'23: 36th Conference on Learning Theory.

Winner of the Best Paper Award.

72. AdaBoost is not an Optimal Weak to Strong Learner

Mikael Møller Høgsgaard, Kasper Green Larsen, Martin Ritzert ICML'23: 40th International Conference on Machine Learning. Accepted for Short-Live Presentation.

71. The Fast Johnson-Lindenstrauss Transform is Even Faster

Ora Nova Fandina, Mikael Møller Høgsgaard, Kasper Green Larsen ICML'23: 40th International Conference on Machine Learning.

70. Distributed Shuffling in Adversarial Environments

Kasper Green Larsen, Maciej Obremski, Mark Simkin

ITC'23: 4th Information-Theoretic Cryptography Conference.

69. How to Compress Encrypted Data

Nils Fleischhacker, Kasper Green Larsen, Mark Simkin

EUROCRYPT'23: 42nd Conference on the Theory and Applications of Cryptography and Information Security.

68. Barriers for Faster Dimensionality Reduction

Ora Nova Fandina, Mikael Møller Høgsgaard, Kasper Green Larsen

STACS'23: 40th Symposium on Theoretical Aspects of Computer Science.

67. Fast Discrepancy Minimization with Hereditary Guarantees

Kasper Green Larsen

SODA'23: 34th ACM-SIAM Symposium on Discrete Algorithms.

66. Stronger 3SUM-Indexing Lower Bounds

Eldon Chung, Kasper Green Larsen

SODA'23: 34th ACM-SIAM Symposium on Discrete Algorithms.

65. Optimal Weak to Strong Learning

Kasper Green Larsen, Martin Ritzert

NeurIPS'22: Conference on Neural Information Processing Systems.

64. Improved Coresets for Euclidean k-Means

Vincent Cohen-Addad, Kasper Green Larsen, David Saulpic, Chris Schwiegelshohn, Omar Ali Sheikh-Omar NeurIPS'22: Conference on Neural Information Processing Systems.

63. Hierarchical Categories in Colored Searching

Peyman Afshani, Rasmus Killman, Kasper Green Larsen

ISAAC'22: 33rd International Symposium on Algorithms and Computation.

Invited to special issue of Computational Geometry: Theory and Applications (CGTA).

62. Towards Optimal Lower Bounds for k-median and k-means Coresets

Vincent Cohen-Addad, Kasper Green Larsen, David Saulpic, Chris Schwiegelshohn

STOC'22: 54th ACM Symposium on Theory of Computing.

61. Optimality of the Johnson-Lindenstrauss Dimensionality Reduction for Practical Measures

Yair Bartal, Ora Nova Fandina, Kasper Green Larsen

SoCG'22: 38th ACM Symposium on Computational Geometry.

Invited to special issue of Journal of Computational Geometry (JoCG); declined

60. Property-Preserving Hash Functions from Standard Assumptions

Nils Fleischhacker, Kasper Green Larsen, Mark Simkin

EUROCRYPT'22: 41st Conference on Theory and Applications of Cryptology and Information Security.

59. CountSketches, Feature Hashing and the Median of Three

Kasper Green Larsen, Rasmus Pagh, Jakub Tetek

ICML'21: 38th International Conference on Machine Learning.

58. Broadcast Secret-Sharing, Bounds and Applications

Ivan Damgd, Kasper Green Larsen, Sophia Yakoubov

ITC'21: 2nd Information-Theoretic Cryptography Conference.

57. Further Unifying the Landscape of Cell Probe Lower Bounds

Kasper Green Larsen, Jonathan Lindegaard Starup, Jesper Steensgaard SOSA'21: 3rd Symposium on Simplicity in Algorithms.

56. Optimal Oblivious Priority Queues

Zahra Jafargholi, Kasper Green Larsen, Mark Simkin SODA'21: 32nd ACM-SIAM Symposium on Discrete Algorithms.

55. Predicting Positive and Negative Links with Noisy Queries: Theory and Practice*

Charalampos E. Tsourakakis, Michael Mitzenmacher, Kasper Green Larsen, Jaroslaw Blasiok, Ben Lawson, Preetum Nakkiran, Vasileios Nakos

Internet Mathematics 2020.

54. Margins are Insufficient for Explaining Gradient Boosting

Allan Grønlund, Lior Kamma, Kasper Green Larsen NeurIPS'20: 34th Conference on Neural Information Processing Systems.

53. Lower Bounds for Multi-Server Oblivious RAMs

Kasper Green Larsen, Mark Simkin, Kevin Yeo TCC'20: 18th Theory of Cryptography Conference.

52. Secret Sharing Lower Bound: Either Reconstruction is Hard or Shares are Long

Kasper Green Larsen, Mark Simkin

SCN'20: 12th Conference on Security and Cryptography for Networks.

51. Near-Tight Margin-Based Generalization Bounds for Support Vector Machines

Allan Grønlund, Lior Kamma, Kasper Green Larsen

ICML'20: 37th International Conference on Machine Learning.

50. Optimal Learning of Joint Alignments with a Faulty Oracle

Kasper Green Larsen, Michael Mitzenmacher, Charalampos E. Tsourakakis ISIT'20: IEEE International Symposium on Information Theory.

49. Clustering with a Faulty Oracle

Kasper Green Larsen, Michael Mitzenmacher, Charalampos E. Tsourakakis WWW'20: The Web Conference.

48. Lower Bounds for Oblivious Near-Neighbor Search

Kasper Green Larsen, Tal Malkin, Omri Weinstein, Kevin Yeo SODA'20: 31st ACM-SIAM Symposium on Discrete Algorithms.

47. Margin-Based Generalization Lower Bounds for Boosted Classifiers

Allan Grønlund, Lior Kamma, Kasper Green Larsen, Alexander Mathiasen, Jelani Nelson NeurIPS'19: 33rd Conference on Neural Information Processing Systems.

46. Communication Lower Bounds for Statistically Secure MPC, with or without Preprocessing

Ivan Damgård, Kasper Green Larsen, Jesper Buus Nielsen CRYPTO'19: 39th International Cryptology Conference.

45. Optimal Minimal Margin Maximization with Boosting

Allan Grønlund, Kasper Green Larsen, Alexander Mathiasen ICML'19: 36th International Conference on Machine Learning.

44. Lower Bounds for Multiplication via Network Coding

Peyman Afshani, Casper Freksen, Lior Kamma, Kasper Green Larsen ICALP'19: 46th International Colloquium on Automata, Languages and Programming.

43. Lower Bounds for External Memory Integer Sorting via Network Coding

Alireza Farhadi, Mohammad Taghi Hajiaghayi, Kasper Green Larsen, Elaine Shi STOC'19: 51st ACM Symposium on Theory of Computing.

Invited to Communications of the ACM.

42. Constructive Discrepancy Minimization with Hereditary L2 Guarantees

Kasper Green Larsen

STACS'19: 36th Symposium on Theoretical Aspects of Computer Science.

41. Lower Bounds for Oblivious Data Structures

Riko Jacob, Kasper Green Larsen, Jesper Buus Nielsen SODA'19: 30th ACM-SIAM Symposium on Discrete Algorithms.

40. A Faster External Memory Priority Queue with DecreaseKeys

Shunhua Jiang, Kasper Green Larsen

SODA'19: 30th ACM-SIAM Symposium on Discrete Algorithms.

39. Fully Understanding the Hashing Trick

Casper Benjamin Freksen, Lior Kamma, Kasper Green Larsen NeurIPS'18: 32nd Conference on Neural Information Processing Systems. Accepted as Spotlight paper.

38. Yes, There is an Oblivious RAM Lower Bound!

Kasper Green Larsen, Jesper Buus Nielsen

CRYPTO'18: 38th International Cryptology Conference.

Winner of the Best Paper Award.

37. Tight Cell Probe Bounds for Succinct Boolean Matrix-Vector Multiplication

Diptarka Chakraborty, Lior Kamma, Kasper Green Larsen.

STOC'18: 50th ACM Symposium on Theory of Computing.

36. Crossing the Logarithmic Barrier for Dynamic Boolean Data Structure Lower Bounds

Kasper Green Larsen, Omri Weinstein, Huacheng Yu.

STOC'18: 50th ACM Symposium on Theory of Computing. Invited to special issue of SIAM Journal on Computing (SICOMP).

35. Upper and Lower Bounds for Dynamic Data Structures on Strings

Raphaël Clifford, Allan Grønlund, Kasper Green Larsen, Tatiana Starikovskaya.

STACS'18: 35th Symposium on Theoretical Aspects of Computer Science.

34. On Using Toeplitz and Circulant Matrices for Johnson-Lindenstrauss Transforms

Casper Benjamin Freksen, Kasper Green Larsen.

ISAAC'17: 28th International Symposium on Algorithms and Computation.

Invited to special issue of Algorithmica.

33. A Dichotomy for Regular Expression Membership Testing

Karl Bringmann, Allan Grønlund, Kasper Green Larsen.

FOCS'17: 58th IEEE Symposium on Foundations of Computer Science.

32. Optimality of the Johnson-Lindenstrauss Lemma

Kasper Green Larsen, Jelani Nelson.

 $FOCS'17:\ 58th\ IEEE\ Symposium\ on\ Foundations\ of\ Computer\ Science.$

Invited to special issue of SIAM Journal on Computing (SICOMP); declined

31. DecreaseKeys are Expensive for External Memory Priority Queues

Kasper Eenberg, Kasper Green Larsen, Huacheng Yu.

STOC'17: 49th ACM Symposium on Theory of Computing.

30. Faster Online Matrix-Vector Multiplication

Kasper Green Larsen, Ryan Williams.

SODA'17: 28th ACM-SIAM Symposium on Discrete Algorithms.

29. Heavy Hitters via Cluster-Preserving Clustering

Kasper Green Larsen, Jelani Nelson, Huy L. Nguyen, Mikkel Thorup.

FOCS'16: 57th IEEE Symposium on Foundations of Computer Science.

 $Invited\ to\ Communications\ of\ the\ ACM.$

28. How to Prove Knowledge of Small Secrets

Carsten Baum, Ivan Damgård, Kasper Green Larsen, Michael Nielsen.

CRYPTO'16: 36th International Cryptology Conference.

27. Towards Tight Lower Bounds for Range Reporting on the RAM

Allan Grønlund, Kasper Green Larsen.

ICALP'16: 43rd International Colloquium on Automata, Languages and Programming.

26. The Johnson-Lindenstrauss Lemma is Optimal for Linear Dimensionality Redution

Kasper Green Larsen, Jelani Nelson.

ICALP'16: 43rd International Colloquium on Automata, Languages and Programming.

$25. \ \, \text{New Unconditional Hardness Results for Dynamic and Online Problems}$

Raphaël Clifford, Allan Grønlund, Kasper Green Larsen.

FOCS'15: 56th IEEE Symposium on Foundations of Computer Science.

24. Adapt or Die: Polynomial Lower Bounds for Non-Adaptive Dynamic Data Structures

Joshua Brody, Kasper Green Larsen.

To C'15: Theory of Computing, Vol 11. 2015.

23. Time Lower Bounds for Nonadaptive Turnstile Streaming Algorithms

Kasper Green Larsen, Jelani Nelson, Huy L. Nguyen.

STOC'15: 47th ACM Symposium on Theory of Computing.

22. Approximate Range Emptiness in Constant Time and Optimal Space

Mayank Goswami, Allan Grønlund, Kasper Green Larsen, Rasmus Pagh.

SODA'15: 26th ACM-SIAM Symposium on Discrete Algorithms.

21. Optimal Planar Orthogonal Skyline Counting Queries

Gerth Stølting Brodal, Kasper Green Larsen.

SWAT'14: 14th Scandinavian Symposium and Workshop on Algorithm Theory.

20. On Hardness of Several String Problems

Kasper Green Larsen, J Ian Munro, Jesper Sindahl Nielsen, Sharma V. Thankachan.

CPM'14: 25th Symposium on Combinatoral Pattern Matching.

19. Near-Optimal Labeling Schemes for Nearest Common Ancestors

Steffen Alstrup, Esben Bistrup Halvorsen, Kasper Green Larsen.

SODA'14: 25th ACM-SIAM Symposium on Discrete Algorithms.

18. Succinct Sampling from Discrete Distributions

Karl Bringmann, Kasper Green Larsen.

STOC'13: 45th ACM Symposium on Theory of Computing.

17. Near-Optimal Range Reporting Structures for Categorical Data

Kasper Green Larsen, Freek van Walderveen.

SODA'13: 24th ACM-SIAM Symposium on Discrete Algorithms.

16. Higher Cell Probe Lower Bounds for Evaluating Polynomials

Kasper Green Larsen.

FOCS'12: 53rd IEEE Symposium on Foundations of Computer Science.

15. Improved Range Searching Lower Bounds

Kasper Green Larsen, Huy L. Nguyen.

SoCG'12: 28th ACM Symposium on Computational Geometry.

14. Higher-dimensional Orthogonal Range Reporting and Rectangle Stabbing in the Pointer Machine Model

Peyman Afshani, Lars Arge, Kasper Green Larsen.

SoCG'12: 28th ACM Symposium on Computational Geometry.

13. The Cell Probe Complexity of Dynamic Range Counting

Kasper Green Larsen.

STOC'12: 44th ACM Symposium on Theory of Computing.

Winner of the Best Paper Award and winner of the Best Student Paper Award (the Danny Lewins Award). Invited to Journal of the ACM (JACM). Declined.

12. Linear-Space Data Structures for Range Mode Query in Arrays

Timothy M. Chan, Stephane Durocher, Kasper Green Larsen, Jason Morrison, Bryan T. Wilkinson.

STACS'12: 29th Symposium on Theoretical Aspects of Computer Science.

Invited to special issue of Theory of Computing Systems (TOCS).

11. I/O-Efficient Data Structures for Colored Range and Prefix Reporting

Kasper Green Larsen, Rasmus Pagh.

SODA'12: 23rd ACM-SIAM Symposium on Discrete Algorithms.

10. On Range Searching in the Group Model and Combinatorial Discrepancy

Kasper Green Larsen.

FOCS'11: 52nd IEEE Symposium on Foundations of Computer Science

Winner of the Best Student Paper Award (the Machtey Award).

 $Invited\ to\ special\ issue\ of\ SIAM\ Journal\ on\ Computing\ (SICOMP).$

9. Orthogonal Range Searching on the RAM, Revisited

Timothy M. Chan, Kasper Green Larsen, Mihai Pătrașcu.

 $SoCG'11:\ 27th\ ACM\ Symposium\ on\ Computational\ Geometry.$

Invited to special issue of Computational Geometry: Theory and Applications (CGTA). Declined.

8. (Approximate) Uncertain Skylines

Peyman Afshani, Pankaj K. Agarwal, Lars Arge, Kasper Green Larsen, Jeff M. Phillips.

 $ICDT'11:\ 14th\ International\ Conference\ on\ Database\ Theory.$

Invited to special issue of Theory of Computing Systems (TOCS).

7. Range Selection and Median: Tight Cell Probe Lower Bounds and Adaptive Data Structures

Allan Grønlund Jørgensen, Kasper Green Larsen.

SODA'11: 22nd ACM-SIAM Symposium on Discrete Algorithms.

6. Cleaning Massive Sonar Point Clouds

Lars Arge, Kasper Green Larsen, Thomas Mølhave, Freek Van Walderveen.

GIS'10: 18th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems.

$5.\,$ Cell Probe Lower Bounds and Approximations for Range Mode

Mark Greve, Allan Grønlund Jørgensen, Kasper Dalgaard Larsen, Jakob Truelsen.

ICALP'10: 37th International Colloquium on Automata, Languages and Programming.

4. Orthogonal Range Reporting: Query Lower Bounds, Optimal Structures in 3-d and Higher Dimensional Improvements

Peyman Afshani, Lars Arge, Kasper Dalgaard Larsen.

SoCG'10: 26th ACM Symposium on Computational Geometry.

Invited to special issue of Computational Geometry: Theory and Applications (CGTA). Declined.

3. Orthogonal Range Reporting in Three and Higher Dimensions

Peyman Afshani, Lars Arge, Kasper Dalgaard Larsen.

FOCS'09: 50th IEEE Symposium on Foundations of Computer Science.

2. Mental Models and Programming Aptitude

Michael E. Caspersen, Jens Bennedsen, Kasper Dalgaard Larsen.

ITiCSE'07: 12th Conference on Innovation and Technology in Computer Science Education.

$Invited\ Abstracts$

I/O-Efficient Spatial Data Structures for Range Queries Lars Arge, Kasper Green Larsen. Invited abstract in SIGSPATIAL Special, July, 2012.